

CLAIMS

1. A device for determining the conductance of laundry in a laundry dryer, which comprises at least two electrodes (2), characterised in that the device (1) comprises means for heat elimination from at least a part at least of one of the electrodes (2).
2. The device as claimed in Claim 1, characterised in that the means for heat elimination are arranged on the rear of the electrodes (3).
3. The device as claimed in Claim 1 or 2, characterised in that the means constitute means for improving radiation of heat from the electrodes (2) and/or that the means constitute cooling surfaces, which are connected to the electrodes (2).
4. The device as claimed in any one of Claims 1 to 3, characterised in that the means comprise means for air supply (32,33, 211,411) and/or that the electrodes are arranged on a component (3), in which openings (32) are formed, and can be supplied and removed via the cool air, whereby cool air can be supplied preferably via a middle opening (32) and cool air can be removed via a side opening (32).
5. The device as claimed in Claim 4, characterised in that the means for air supply are formed by defined faulty air openings (211,411) in the vicinity of the electrodes (2), via which ambient air can be conveyed to the electrodes (2).

6. The device as claimed in Claim 4 or 5, characterised in that the means comprise a fan, or a source of compressed air.
7. The device as claimed in any one of Claims 1 to 6, characterised in that the electrodes (2) are built fixed in the laundry dryer.
8. A laundry dryer, which comprises at least one receiving area (5) for laundry and at least two electrodes (2) for measuring the conductance of the laundry, whereby at least one of the electrodes (2) at least partially borders on this receiving area (5), characterised in that also in the laundry dryer means are provided for cooling at least a part of at least one of the electrodes (2).
9. The laundry dryer as claimed in Claim 8, characterised in that the means for heat elimination are configured as claimed in any one of Claims 2 to 6.
10. A laundry dryer as claimed in any one of Claims 8 or 9, characterised in that means are provided, via which subpressure can be set in the receiving area (5), and the means for cooling constitute defined faulty air openings (211, 411), by means of which the electrodes (2) can be supplied with ambient air or in that a condenser for condensing water is provided, which is cooled via a current of cool air, whereby a part of the current of cool air can be used for cooling the electrodes.
11. The laundry dryer as claimed in Claim 8 to 10, characterised in that the electrodes (2) are

built in to the laundry dryer, preferably in the vicinity of the front end shield.

12. A process for preventing deposit build-up on electrodes (2) for conductance measuring in a laundry dryer, characterised in that the temperature of the electrodes (2) is controlled by means for heat elimination.
13. The process as claimed in Claim 12, characterised in that the heat elimination is controlled by means designed as claimed in any one of Claims 2 to 6.
14. The process as claimed in Claim 12 or 13, characterised in that the electrodes (2) are at least partially cooled.
15. The process as claimed in any one of Claims 12 to 14, characterised in that the electrodes (2) are brought to a temperature, which is below the processing temperature in the laundry dryer, preferably below the temperature of metallic parts adjacent to the electrodes (2).
16. The process as claimed in any one of Claims 12 to 15, characterised in that the electrodes are cooled by air cooling.
17. The process as claimed in any one of Claims 12 to 16, characterised in that subpressure is set in a receiving area (5) for laundry in the laundry dryer and the electrodes (2) are supplied with cool air, in that ambient air is guided to the electrodes (2) via defined faulty air openings (211, 411).